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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,882	11/27/2002	Kevin George Harding	121325-1	5283

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EXAMINER

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ART UNIT	PAPER NUMBER
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2656

DATE MAILED: 03/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

Claim Objections

1. Claim 21 objected to because of the following informalities:

There is a lack of antecedent basis for “the plurality of recording address access media.”

Applicant may wish to include the language of original claim 14 in this claim, or change “wherein the plurality of recording access media comprise media which cause” to “a plurality of recording access media which cause.”

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 5, 6, 11, 12, 15, 19, and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claims 5 and 11, the subject matter of “reading the set of data in the Nth diffraction order wavefront for a second selected hologram by changing the wavelength of one optical beam with respect to the other” fails to comply with the enablement requirement.

Changing the wavelength of one optical beam is well known in the art. However, using it to select a second selected hologram appears to require “memory access media” which are not sufficiently described in the specification to enable one skilled in the art to which it pertains to make and/or use the invention without undue experimentation.

The relevant portion of the specification appears to be paragraph 27, in which “changing the wavelength of the interfering optical beams 210, 212 different memory address media layers 206 are caused to affect the polarization retardation of the optical beams 210, 212. Thus, by selecting the wavelengths of the beams 210, 212 one selects which memory address media layer 206 changes or shifts the polarization rotation of the optical beams 210, 212.”

The memory access media are thus crucial to select the second selected hologram, but are not further described in the specification to enable one skilled in the art to which it pertains to make and/or use the invention without undue experimentation.

Regarding claims 6 and 12, the subject matter of “reading the set of data in the N^{th} diffraction order wavefront for a second selected hologram by changing the state of polarization of one optical beam with respect to the other” similarly requires the memory access media, which are not described in the specification to enable one skilled in the art to which it pertains to make and/or use the invention without undue experimentation.

Regarding claims 15 and 19, “means for creating an interference pattern between two beams of light at a selected one of the discrete memory locations” similarly requires the memory access media, which are not described in the specification to

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enable one skilled in the art to which it pertains to make and/or use the invention without undue experimentation.

Regarding claim 21, "means for creating an interference pattern between two beams of light at a selected one of the discrete memory locations" and "wherein the plurality of recording address access media comprise media which cause a change in phase of the two beams of light with respect to one another generating thereby non-cross polarized beams of light" similarly requires the memory access media, which are not described in the specification to enable one skilled in the art to which it pertains to make and/or use the invention without undue experimentation.

Note that if the applicant can demonstrate that one skilled in the art could make or use the invention (by, for example, demonstrating that materials with the properties attributed to the "memory access media" are well known to those in the art), this rejection would be withdrawn and these claims would become allowable over the prior art of record.

Conclusion

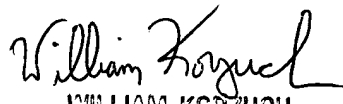
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Lamb whose telephone number is (572) 272-5264. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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CRL 3/15/06


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